

Abstract

Title: Comparison of color change of two types of flowable composites after using two different mouthwashes

Background and Aim

By introducing self adhesive composites the clinical steps of composite restorations are facilitated.

The aim of this study was to comparison of color change of two types of flowable composites after using two different mouthwashes.

Materials and methods

The study was performed on 48 composite disks. 24 disk of Vertise flow (Kerr/Italy) and 24 disk of Grandio flow (Voco/Germany). The color of base line was measured by spectrophotometer and CIEL*a*b* system. Then samples are divided into 6 groups. they were immersed for 24 hours in chlorhexidine, fluoride and distilled water (control group). Subsequently, the secondary color and ΔE were determined. To analyze the data Kruskal-Wallis and Mann-Whitney Nanoparametric tests were used. The significance level was considered as $P = 0.05$.

Results

All of the samples had a change of color but none were clinically unacceptable. ($\Delta E < 3.3$)

There was no significant difference between the groups. ($P = 0.847$)

Conclusion

In the study period which was equivalent to two years of daily use of mouthwash for 2 minutes each day, the color change of Vertise flow composite and Grandio flow composite was almost the same as the control group (distilled water) and the result of the present study indicated that composites showed an acceptable color change.

Key words: Resin composite, Self-adhesive composite, Mouthwash, Color change